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Credit 8	Credit 7.2	Credit 7.1	Credit 6.2	Credit 6.1	Credit 5.2	Credit 5.1	Credit 4.4	Credit 4.3	Credit 4.2	Credit 4.1	Credit 3	Credit 2	*****	Prereq 1		LEED Cedit Number		Note: Do	
<u></u>			<u>b</u>									خد		Required	Points	Prerequisites and possible points		o not	
Tight Pollution Deduction	Heat Island Effect, Roof	Heat Island Effect, Non-Roof	Stormwater Design, Quality Control	Stormwater Design, Quantity Control	Site Development, Maximize Open Space	Site Development, Protect or Restore Habitat	Alternative Transportation, Parking Capacity	Alternative Transportation, Low-Emitting & Fuel-Efficient Vehicles	Alternative Transportation, Bicycle Storage & Changing Rooms	Alternative Transportation, Public Transportation Access	Brownfield Redevelopment	Development Density & Community Connectivity	Site Selection	Construction Activity Pollution Prevention	Sustainable Sites (14 points total)	LEED for New Construction v2.2 Worksheet Project Name: Hindu Community and Cultural Center Phase 1 Site Work and Building C Administration Building Address: 1200 Arrowhead Avenue	Updated 10/1/10	not alter printed information. Complete proposed points	
<del></del>		0			0					0	0	0		D	,	Indicate Total Proposed Points		and	
Sht. L-3.1: Photometric diagrams and	See Specification Section 07530 Thermoset (EPDM) Roofing		CE-7; Draft Maintenance Agreement submitted.	CE-7; BAHM Calculations already submitted to City		Vegetated area calculations, Sht. L-1.4	Sht. CE-3: 5% of preferred parking spaces assigned to carpools / vanpools. Parking capacity on site meets, but does not exceed, the City requirements per the CUP.	Sht. CE-3: 5% of preferred parking stalls assigned to low-emitting and fuel-efficient vehicles.	Bicycle storage, Sht. L-1.3				Sht. L-1.2 for existing landscape conditions/aerial image demonstrating that site is infill on previously developed/disturbed land.	Sht. CE-7 for storm water control plan and CE-8 for erosion control plan.	Plan Sheet / Detail No.			plan sheet/detail number columns.	

	LEED Cedit Number  Prerequisites and possible points	Credit 8 1 Lig	Credit 7.2	Credit 7.1 1 He	Credit 6.2 1 Sto	Credit 6.1 1 Str	Credit 5.2 1 Sit	Credit 5.1 1 Sit		Credit 4.3 1 Alt
The Daniel Maintain 700 of District Mark District Office O	LEED for New Construction v2.2 Worksheet Project Name: Hindu Community and Cultural Center Phase 1 Site Work and Building C Administration Building Address: 1200 Arrowhead Avenue	Light Pollution Reduction	Heat Island Effect, Roof	Heat Island Effect, Non-Roof	Stormwater Design, Quality Control	Stormwater Design, Quantity Control	Site Development, Maximize Open Space	Site Development, Protect or Restore Habitat	Alternative Transportation, Parking Capacity	Alternative Transportation, Low-Emitting & Fuel-Efficient Vehicles
Ŋ	Indicate Total Proposed Points			0			0		<u> </u>	
		Sht. L-3.1: Photometric diagrams and calculations	See Specification Section 07530 Thermoset (EPDM) Roofing		CE-7; Draft Maintenance Agreement submitted.	CE-7; BAHM Calculations already submitted to City		Vegetated area calculations, Sht. L-1.4	Sht. CE-3: 5% of preferred parking spaces assigned to carpools / vanpools. Parking capacity on site meets, but does not exceed, the City requirements per the CUP.	vehicles.

LEED Cedit Number	Building Address: 1200 Arrowhead  Avenue
	Points  Sustainable Sites (14 points total)
rered i	Required Construction Activity Foliution Flevention
7	
,	1 Site Selection
redit 2	
iredit 3	شند
redit 4.1	
redit 4.2	4.2   1   Alternative Transportation, Bicycle Storage & Changing Rooms
redit 4.3	
	The second second and the second seco
redit 4.4	4.4
	1 Alternative Transportation, Parking Capacity
redit 5.1	
redit 5.2	
redit 6.1	
redit 6.2	5.2 Stormwater Design, Quality Control
redit 7.1	
redit 7.2	
redit 8	3   1   Light Pollution Reduction

Prereg 1		Credit 6	Credit 5	Credit 4	Credit 3				Credit 2											Credit 1	Prereq 3	Pirereq 2	Prereq 1		Credit 3.2	Credit 3.1	Credit 2	Credit 1.2	Credit 1.1		LEED Cedit Number
Required	Points			<u>.</u>		ω	2		1 to 3	10	9	8	7	6	5	4	3	2		1 to 10	Required	Required	Required	Points					فند	Points	Prerequisites and possible points
Storage & Collection of Recyclables	Materials and Resources (13 points total)	Green Power	Measurement & Verification	Enhanced Refrigerant Management	Enhanced Commissioning	12.5% Renewable Energy	7.5% Renewable Energy	2.5% Renewable Energy	On-Site Renewable Energy	42% New Buildings	38.5% New Buildings	35% New Buildings	31.5% New Buildings	28% New Buildings	24.5% New Buildings	21% New Buildings	17.5% New Buildings	14% New Buildings	10.5% New Buildings	Optimize Energy Performance	Fundamental Refrigerant Management	Required Minimum Energy Performance	Fundamental Commissioning of the Building Energy Systems	Energy and Atmosphere (17 points)	Water Use Reduction, 30% Reduction	Water Use Reduction, 20% Reduction		Water Efficient Landscaping, No Potable Use or No Irrigation	Water Efficient Landscaping, Reduce by 50%	Water Efficiency (5 points total)	LEED for New Construction v2.2 Worksheet Project Name: Hindu Community and Cultural Center Phase 1 Site Work and Building C Administration Building Address: 1200 Arrowhead Avenue
D		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0				D	æ	R		the state of the s		0	0			Indicate Total Proposed Points
Sht. A-2B shows designated area for recycling containers for paper, corrugated cardboard, glass, plastics and metals																		Refer to DWG T24-1B, Form PERF-1C	Refer to DWG T24-1B, Form PERF-1C		Refer to DWGM11.4B, Specifications	Refer to DWG T24-1B, Form PERF-1C	Refer to Specification Section U1810 - Commissioning		Refer to attached calculations dated 5/25/2010	Refer to attached calculations dated 5/25/2010			Water usage, Sht. L-2.6		

LEED Cedit Number	Prerequisites and possible points	Worksheet Project Name: Hindu Community and Cultural Center Phase 1 Site Work and Building C Administration Building Address: 1200 Arrowhead Avenue	Indicate Total Proposed Points
Credit 7.2 Credit 8.1		Thermal Comfort, Verification  Daylight & Views, Daylight 75% of Spaces	0
Credit 8.2	Points	Innovation & Design Process (5 points total)	0
Credit 1.1		Innovation in Design: Onsite Composting Facility	1 Onsite composting facility
Credit 1.2	شد	Innovation in Design: Interactive educational kiosk	Interactive educational kiosk for temple visitors  on sustainability principles ingrained in Hinduism
Credit 1.3	احدا	Innovation in Design: Indicate Specific Title	0
Credit 2	٠.	LEED® Accredited Professional	Kuppe G. Srinivas, P.E., LEED AP, principal
		Total Proposed Points	27
		Total Achived Points (For Staff Use)	U

PROJECT: ARROWHEAD	DRAWN BY: RL	SCALE:	DATE 03/12/10

Phase

1-B

Permit Set

Credit 4.4

Low-Emitting Materials, Composite Wood & Agr

Low-Emitting Materials, Carpel Systems

Indoor Chemical & Pollutant Source Control
Controllability of Systems, Lighting
Controllability of Systems, Thermal Comfort
Thermal Comfort, Design

Credit 4.3

Credit 4.2

Low-Emitting Materials, Paints & Coatings

Low-Emitting Materials, Adhesives & Sealants

Prereq 1

Minimum IAQ Performance

| D | D

Refer to M11.1B for minimum OSA quantities.
Specification Section 15900.
Smoking banned indoors
Refer to M13.0B for CO<sub>2</sub> sensors in Conference

Indoor Environmental Quality (15 points total)

Outdoor Air Delivery Monitoring
Increased Ventilation
Construction IAQ Management Plan, During Construction
Construction IAQ Management Plan, Before Occupancy

Credit 2.2

Construction Waste Management, Divert 75% from Disposal

Refer to Specification Section 01515 Construction Waste Management
Refer to Specification Section 01515 Construction Waste Management

Refer to Specification Section 01400 - Project Sustainability Requirements

Construction Waste Management, Divert 50% from Disposal

Building Reuse, Maintain 75% of Existing Walls, Floors & Roof Building Reuse, Maintain 100% of Existing Walls, Floors & Roof Building Reuse, Maintain 50% of Interior Non-Structural Elements

Recycled Content, 10% (post-consumer + ½ pre-consumer)

Recycled Content, 20% (post-consumer + ½ pre-consumer)

Regional Materials, 10% Extracted, Processed & Manufactured Regionally

Regional Materials, 20% Extracted, Processed & Manufactured Regionally

Rapidly Renewable Materials

Certified Wood

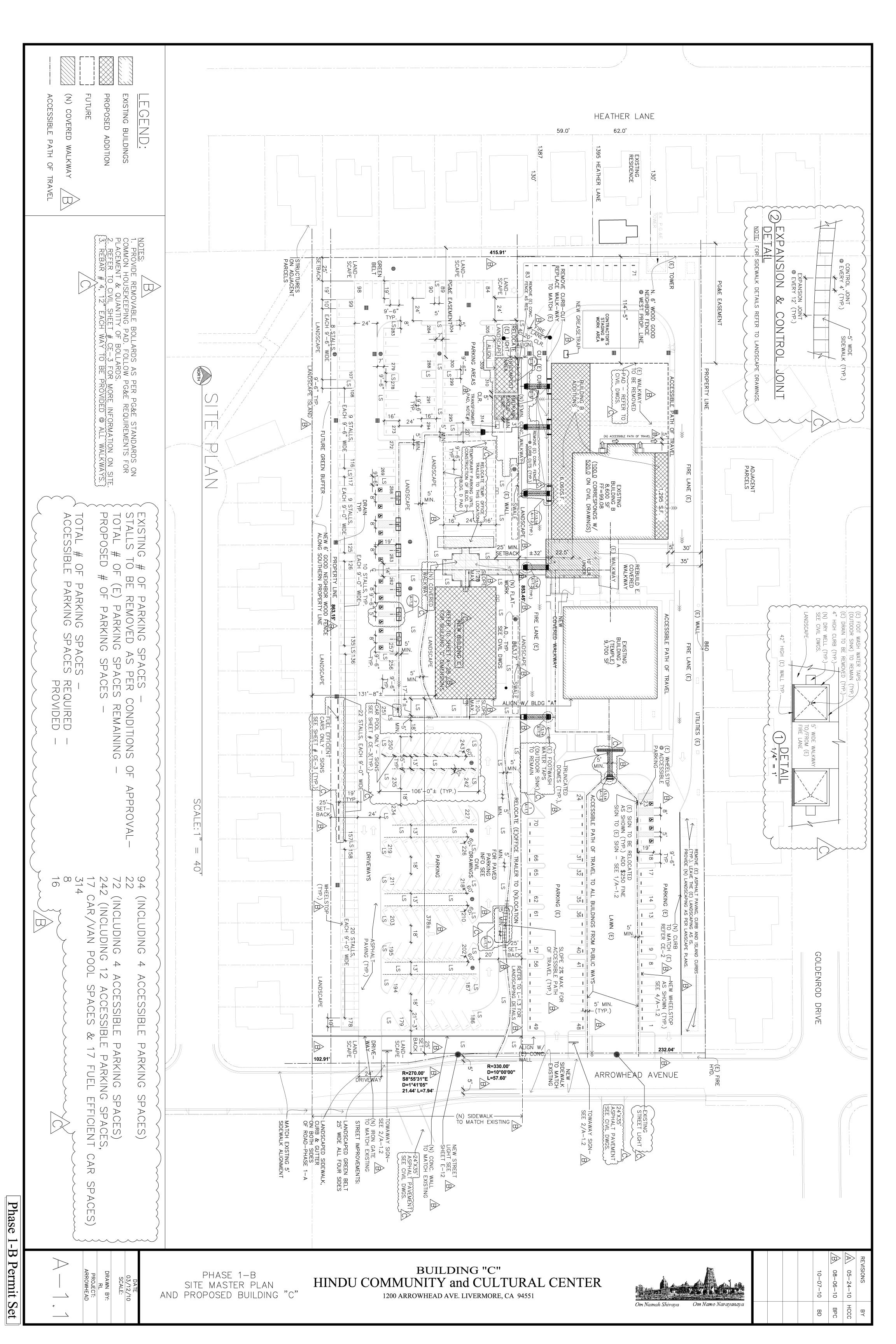
→ □ □ Indicate Total Proposed Points

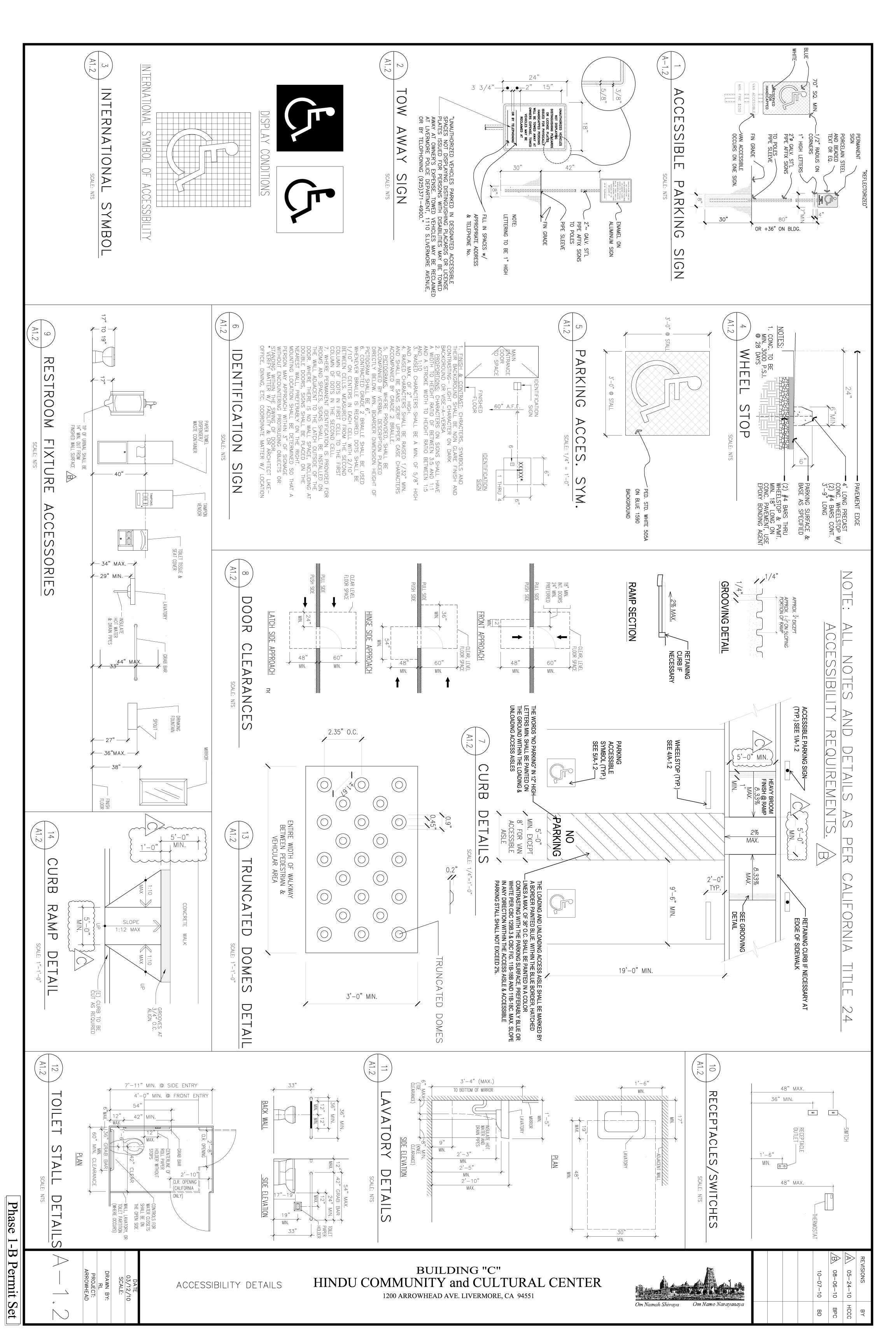
PHASE 1-B LEED-NC CHECKLIST

BUILDING "C" HINDU COMMUNITY and CULTURAL CENTER



08-06-10





## Security Ordinance

## Livermore Municipal Code Section 15.18

These are excerpts from the Livermore Municipal Code section 15.18 relating to escurity standards (commonly known as the Security Code) provided by the Police Department in an effort to avoid any misunderstanding regarding our security requirements. \*Please note: these are only excerpts and do not include all the codes. If you have any questions regarding these codes, or have special concerns not covered, please contact the Livermore Police Department Crime Prevention Unit at 371-4797 or fax 371-4707.

#### Commercial and Industrial Units

#### Section 15.18.010 Purpose:

The purpose of this chapter is to provide a minimum level or resistance to unlawfel entry to buildings by establishing minimum standards of design and maintenance of certain security equipment within the city. The provisions of this chapter are not intended to prevent the use of any material, device, hardware or method not specifically prescribed in this chapter, when such alternate provides equivalent security and is approved by the Police Department

## Section 15.18.080 Exterior Doors

Each exterior door shall be secured as follows, where not prohibited by the building code:

- Single doors shall be equipped with a single cylinder dead bolt with a turnpiece with a minimum throw of one inch. A hook or expanding bolt may have a throw of three-quarters inch. A dead bolt must contain an insert of hardened steel to resist attempts at cutting
- On pairs of doors, the active leaf shall be equipped with the type lock required for a single door as in subsection (A) above. The inactive leaf shall be equipped with flush bolts protected by hardened material, with a minimum throw of five-eighth inch at the top and bottom.
- Cylinders shall be so designed or protected with cylinder guards, that they cannot be
- gripped by pliers or other wrenching devices. Rolling overhead doors, solid overhead swinging, sliding or accordion-type doors shall be equipped with a cylinder lock or padlock when not controlled by electric r ower operation.

Information Bullet	in IB-43 (Updated 08/01/08)
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Permit Center

Community Development Department 1052 South Livermore Avenue Livermore, CA 94550

(925) 960-4419 TDD: (925) 960-4104 Mounting screws for the lock case shall be inaccessible from the outside. A lock bolt shall be of hardened steel or have hardened steel inserts. The lock bolt shall engage the strike sufficiently to prevent its being disengaged by any possible movement of the door within the space or clearances provided for installation and operation. If a padlock is used it shall have a minimum of one-quarter-inch diameter hardened steel shackle and hardened steel hasp attached by bolts which are non-removable from the exterior.

Outside pin-type hinges on all exterior doors shall be provided with non-removable pins and shall have jamb pins which project through both hinge leaves and prevent removal of the door if the pin is removed from the hinge. Jamb pins shall be not less than threesixteenths-inch diameter steel and shall project into the door and jamb not less than onequarter inch. Jamb pins are not required for hinges which are shaped to prevent removal of the door when the hinge pin is removed.

- Glazed panels in doors or adjacent to the doorframe shall be of approved, burglaryresistant material. \*Note: A double cylinder deadbolt lock may be installed in-lieu of security glazing. Signage must accompany this installation: (Door must remain unlocked during business hours)
- Doorjambs shall be constructed or protected to prevent violation of the function of the
- Exterior doors shall be illuminated with a minimum of one footcandle of light at the door. Lights shall be protected from breakage or tampering.

## Section 15.18.085 Loading/Unloading Docks, Shipping/Receiving Areas

- Exterior loading and unloading docks and shipping and receiving areas are not allowed.
- Such areas may not extend outward past the exterior walls of the building. Such areas shall be designed so that cargo vehicles may be maneuvered to the door opening and cargo moved directly between the vehicle and the building, thus minimizing
- the opportunity for theft. D. Doors to these areas shall be flush-mounted to eliminate the possibility of goods or persons being secreted in recessed doorways.

#### Section 15.18.100 Other Openings

Each other type of opening shall be secured as follows, where not prohibited by the building code: Exterior transoms, with any dimension exceeding twelve inches, shall be of approved burglary-resistant material.

- All skylights on the roof of any building or premises used for business purposes shall be
- Steel bars of at least one-half inch round or one by one-fourth inch flat, spaced not more than five inches apart, cross-braced to prevent spreading, mounted inside the skylight, and secured by non-removable bolts; or
- A steel grille of at least one-eighth inch metal with a maximum two-inch mesh mounted inside the skylight and secured by non-removable bolts; or
- Skylights which are integrally constructed in such a manner as to provide equivalent security protection to that provided by the opening protection indicated in items 1 or 2 above shall not be required to provide additional bars or grilles, provided that such integrally constructed skylight, or any component of it, shall not be openable from the exterior.

## Section 15.18.130 Special Security

- A. Intrusion Devices. If the enforcing authority determines that the security measures and locking devices described in this chapter do not adequately secure the building, due to special conditions, he may require the installation and maintenance of an intrusion device (burglar alarm system).
- Each establishment listed below, having specific-type inventories, shall be protected by supervised service silent or local alarm (see Chapter 5.12, Alarm Systems, of this code):
  - 1. Art galleries;
  - 2. Camera stores;
  - 3. Clothing stores (new);
  - 4. Coin and stamp stores;
- 5. Drugstores; 6. Electronic equipment, include musical instruments;
- 7. Fur stores; 8. Guns and ammunition;
- 9. Hazardous material, storage or processing; 10. Industrial tool supply houses;
- 11. Jewelry stores, retail manufacturing, wholesale; 12. Liquor stores;
- 13. Pawnshops; 14. Office machines (excluding furniture);
- 15. Precious metal storage
- 16. Service stations;
- 17. Wholesale drugs; 18. Wholesale liquor, wine or beer;
- 19. Wholesale tobacco.

- Hatchways shall be covered on the inside with at least 16-gauge sheet steel or equivalent, and shall be secured from the inside with a slide bar or slide bolt. Outside pin-type hinges shall be provided with non-removable pins. Exposed hinge-screws shall be of the nonremovable type.
- Air duct or air vent openings exceeding eight by twelve inches shall be secured by iron bars of at least one-half inch diameter, or one by one-quarter inch flat material spaced five inches apart and securely fastened, or by a steel grille of at least one-eighth inch material of not more than two-inch mesh and securely fastened. Barriers on the outside shall be secured with round-head flush bolts. (Prior code 6.72)

## Section 15.18.110 Ladders

Ladders (excluding fire escapes) located on the exterior of a building, which could provide access to the roof, shall be secured from unauthorized use by covering the rungs with an approved barrier locked in place with a padlock. The padlock shall have a minimum of five pin tumblers and be of casehardened steel. Hinges used shall be of non-removable type. The barrier shall provide a minimum of eight feet of continuous covering extending 12 feet above ground level or to the top of the ladder, whichever is lower (1960 code § 6.73).

## Section 15.18.120 Lighting and Parking Areas

The following restrictions as to lighting of commercial building shall apply, where not restricted by the building code:

- A. Open or covered parking areas providing more than 10 parking spaces shall be illuminated with a maintained minimum of one footcandle of light at the parking surface when open for business during the hours of darkness.
- Lighting fixtures shall be so arranged as to disseminate light uniformly over the parking
- Lights shall be protected from breakage or tampering. All lighting shall be private and not substituted with public street lighting to meet the
- requirements of the security code (1960 code § 6.75).

## Section 15.18.125 Address Numbers

- All commercial buildings shall display address numerals in such a position that the numerals are easily visible to approaching emergency vehicles.
- Such numerals shall be no less than six inches in height, with a minimum width of one inch, and shall be contrasting color to the background to which they are mounted or attached. During the hours of darkness the numerals shall be illuminated with a maintained minimum of one footcandle of light. In lieu of exterior illumination, the numerals may be backlighted with a fixture which is resistant to tampering and breakage, having an opaque background to which the numerals are mounted.
- The building address must be displayed on the front of the building and shall be mounted on a non-moveable surface nearest to the street.
- Commercial buildings housing more than one address must also display and maintain the address numerals on any rear or side exterior doors facing driveways, parking lots or other vehicle access.

Date 8-9-10 Scale NA

> Drawn 🔼 / JOB ARROWHEAD

>

24 X 36 PRINTED ON NO. 1000H CLEARPRINT .

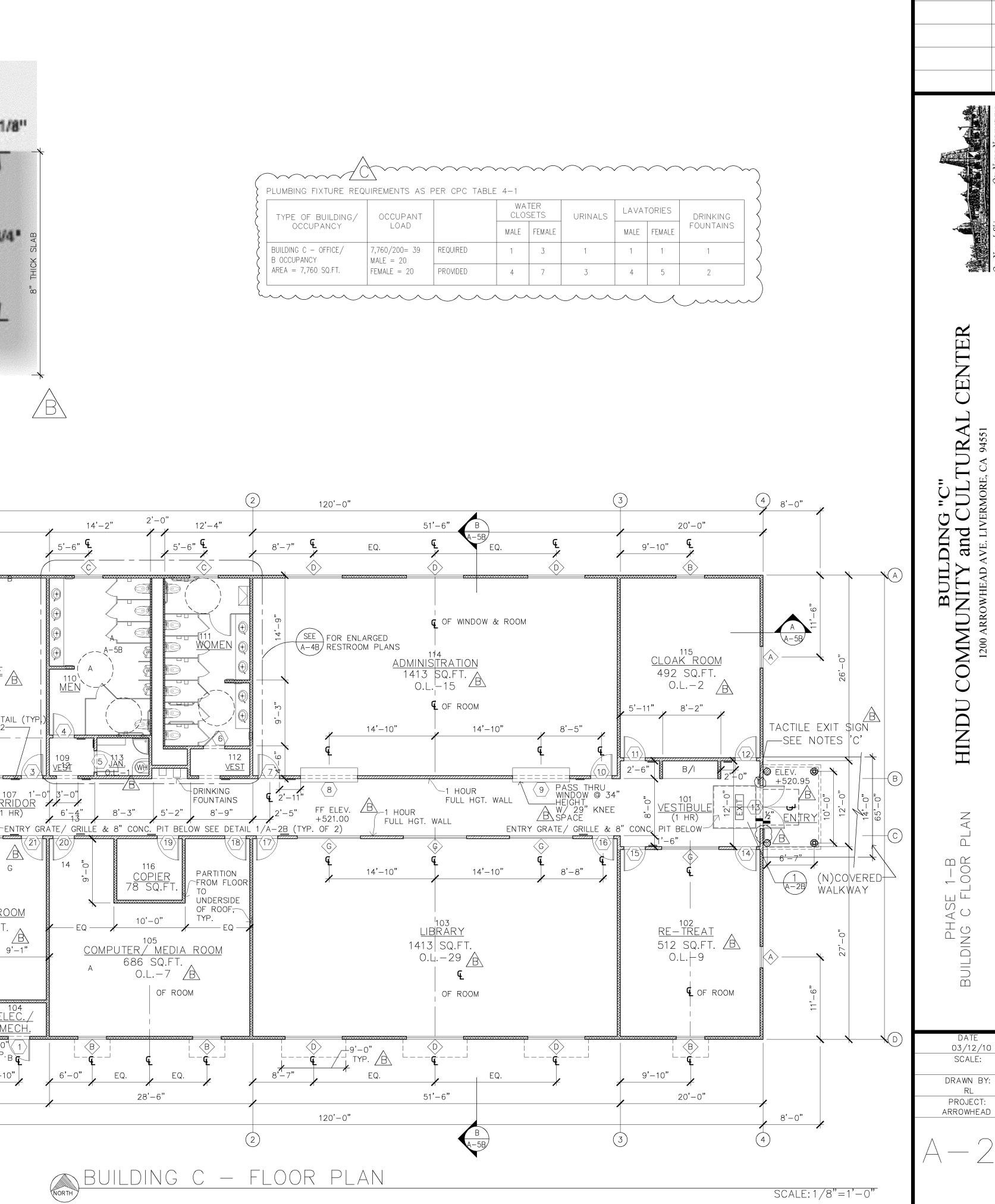
#### **GENERAL NOTES:** ALL WORK SHALL COMPLY WITH THE 2006 INTERNATIONAL BUILDING CODE, 2007 CALIFORNIA BUILDING CODE, 2007 CALIFORNIA ENERGY CODE, 2007 CALIFORNIA PLUMBING CODE, 2007 CALIFORNIA MECHANICAL CODE, 2007 CALIFORNIA ELECTRICAL CODE, 2007 CALIFORNIA MECHANICAL CODE, AND ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES AND STANDARDS. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE ACTUAL SITE CONDITIONS PRIOR TO BIDDING, AND FOR ANY UNIQUE CIRCUMSTANCES OR DISCREPANCIES THAT MAY EXIST. DIMENSIONS, UNLESS OTHERWISE SHOWN, ARE TO STUDLINE, ROUGH CONCRETE OR CONCRETE BLOCK SURFACE. CONTRACTORS SHALL VERIFY ALL DIMENSIONS PRIOR TO THE FABRICATION OF ANY WORK. DO NOT SCALE DRAWINGS, ONLY WRITTEN DIMENSIONS ARE TO BE USED. ANY ERRORS AND/OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, IN WRITING, IMMEDIATELY. UNLESS REPORTED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIMENSIONAL INCONSISTENCIES AND PROBABLE REMEDIAL IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT SHOWN, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN OR CALLED FOR. CURBS AND CURB CUTS TO BE PER CITY STANDARDS. INSPECT, REPAIR & REPLACE DAMAGED CURBS & CURB CUT PER CITY REQUIREMENTS. THE FINISHES FOR THIS PROJECT, INCLUDING BUT NOT LIMITED TO, FLOOR COVERINGS, PAINT, MOULDINGS, LIGHT FIXTURES ETC., ARE THE RESPONSIBILITY OF THE CONTRACTOR. SEPARATE PERMIT SHALL BE OBTAINED FOR ELECTRICAL HEATING, AND PLUMBING INSTALLATIONS. CONTRACTOR KEYLOCK 1-3/4 SHALL PROVIDE DESIGN/SCHEMATICS AND PAY REQUIRED PERMIT FEES. CONTRACTOR SHALL COORDINATE BETWEEN THE VARIOUS TRADES/SUBCONTRACTORS. WHENEVER REQUIRED, CONTRACTOR SHALL OBTAIN OWNER'S APPROVAL, PRIOR TO INSTALLATION OF FIXTURES, HARDWARE, FINISHES, ETC. 1. 7 11. MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF/ RECYCLED BY THE CONTRACTOR. 12. CONTRACTOR SHALL MAINTAIN COMPLETE STRUCTURAL Floor Recessed to INTEGRITY AT ALL TIMES AND SHALL PROVIDE ADEQUATE PRECAUTION FOR SAFETY OF PUBLIC LIFE AND PROPERTY. Top of Grate Frame 13. INSTALL SMOKE DETECTORS AS REQUIRED PER CITY, COUNTY. 14. SPARK ARRESTOR ON ALL FIREPLACES REQUIRED. IT SHALL BE ASSUMED THAT ALL SUBCONTRACTORS ARE EXPERIENCED AND THOROUGHLY KNOWLEDGEABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY AND SHALL PERFORM IN A RESPONSIBLE MANNER IN ESTABLISHED CONSTRUCTION SEQUENCE, RECOGNIZING THE PRIORITY OF THE CONSTRUCTION DOCUMENTS, DRAWINGS AND DETAILS AND ENTRY GRATE & SHALL INFORM THE PRIME CONTRACTOR OF POTENTIAL PROBLEMS WHEN DRAWINGS ARE UNCLEAR OR INCONSISTENT SCALE: NTS SUBCONTRACTORS SHALL BE RESPONSIBLE TO NOTIFY THE PRIME CONTRACTOR OF DISCREPANCIES OR CONFLICTS ON THESE CONSTRUCTION DOCUMENTS FOUND DURING BIDDING AND/OR CONSTRUCTION PRIOR TO PERFORMING THE WORK. SUCH DISCREPANCIES SHALL BE RECEIVED EXPEDITIOUSLY AND NOTIFICATION GIVEN TO THE SUBCONTRACTOR EITHER VERBALLY OR IN WRITING AS APPLICABLE TO THE CONDITION. SUBCONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITY SERVICES AND COORDINATE AS REQUIRED BY EITHER RESPECTIVE AREA OF THE CONSTRUCTION INDUSTRY, NEW COVERED NOTIFYING THE PRIME CONTRACTOR OF VARIATIONS OR 20'-0" WALKWAY -ROOF ABOVE 18. IF NOT SPECIFICALLY DEFINED IN THESE CONSTRUCTION 10**'**-0" √A-5B DOCUMENTS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE SUBCONTRACTOR TO THE PRIME CONTRACTOR WITHIN A REASONABLE TIME TO ALLOW ∽N. COLŲMN (TYP.) SELECTION, PURCHASE AND DELIVERY, TO PREVENT DELAY OF SEE S42B 19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER WORK IN CONFORMANCE WITH ALL APPLICABLE CODES, ORDINANCES 14'+6" B AND LIFE SAFETY FEATURES AS REQUIRED BY LOCAL, STATE, OR FEDERAL AUTHORITIES. HE/SHE SHALL VERIFY WITH THE ARCHITECT, IF MODIFICATION OF HIS/HER WORK IS REQUIRED FOR 7'-3" COMPLIANCE. 20. ALL MATERIALS AND/OR EQUIPMENT SHALL BE HANDLED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. CONFERENCE ALL COLORS AND/OR COLOR SAMPLES SHALL BE SUBMITTED (N) 2" DOWNSPOUT (TYP.)— 530 SQ.FT. 🔼 TO THE PRIME CONTRACTOR WHO WILL CONSULT WITH THE TO BE ENCOMPASSED IN OWNER FOR APPROVAL, BEFORE APPLICATION. THE PLASTERED (N) COLUMNS 0.L. - 3622. WHEN ACCESSIBLE ROUTES OF TRAVEL EXCEED 5% IN ELEVATION CHANGES. A RAMP SHALL BE PROVIDED NEW COVERED COMPLYING WITH 2007 C.B.C.SECTION 1120. WALKWAY 23. EXTERIOR STAIRS, IF ANY, AND APPROACHES SHALL BE SLIP (N) COLUMNS-RESISTANT PER THE 2007 C.B.C. SECTION 1120. TO BE PLASTERED 24. PAVING TO BE SLOPED A MAXIMUM OF 2% UP TO ACCESSIBLE (TYP.) ENTRANCES TO DOOR THRESHOLD. 25. FIRE-BLOCK CONCEALED SPACES C.B.C. 708. 26. WALKWAYS AND SIDEWALKS ALONG ACCESSIBLE ROUTES OF TRAVEL SHALL BE CONTINUOUSLY ACCESSIBLE, HAVE A MAXIMUM OF 1/2" CHANGES IN ELEVATION AND ARE A MINIMUM +520.75 OF 48 INCHES IN WIDTH PER 2007 C.B.C. SECTION 1120. 27. ALL SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED IN (N) POST W/ WRITING BY PROJECT ARCHITECT/ ENGINEER BEFORE THE PLASTER FINISH-SUBMITTAL TO THE BUILDING DIVISION. (EX TIE-DOWN SYSTEM). CONTROL JOINTS INTERNATIONAL SYMBOL GOF ACCESSIBILITY, 10"X10" @ HEIGHT OF 5 BOD CONF ROOM NOTES: A. SAFETY GLAZING TO BE PROVIDED FOR WINDOWS MARKED 'E' IF < 24" FROM (N) CONCRETE $\angle B \setminus$ 484 SQ.FT. 0.L.−33 /B\ WALKWAY (TYP.) ENTRANCE DOORS. 10'-11" B. PERMANENTLY SIGNED ROOMS AND SPACES MUST BE PROVIDED WITH RAISED LETTER AND BRAILLE IDENTIFICATION SIGNS. SEE 6/A-1.2C. TACTILE EXIT SIGNS SHALL BE PROVIDED AT GRADE — LEVEL EXTERIOR EXIT DOORS, IDENTIFIED BY A TACTILE EXIT WITH THE WORD, "EXIT". MOUNTING HEIGHT SHALL BE 60"ABOVE THE FINISH FLOOR TO THE CENTER LINE OF THE SIGN. D. THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF OPENINGS OF G TO MATCH G OF— THE FIRE RATED WALLS AND CEILINGS MUST COMPLY WITH CBC SECTION 712. S(Ē) COLUMN @ BUILDING B∥C THE TOTAL AREA OF WINDOWS ... THE AREA OF A COMMON WALL WITH ANY ROOM. E. THE TOTAL AREA OF WINDOWS IN 1 HR. CORRDIDOR SHALL NOT EXCEED 25% OF 20**'**-0"

NEW WALLS

NEW 1 HR. FIRE RATED WALL

NEW DOOR NUMBER SEE SHEET A-4

NEW WINDOW NUMBER SEE SHEET A-4



TYP.

686 SQ.FT.

28'-6"

EQ.

0.L.-7 /B

OF ROOM

EQ.

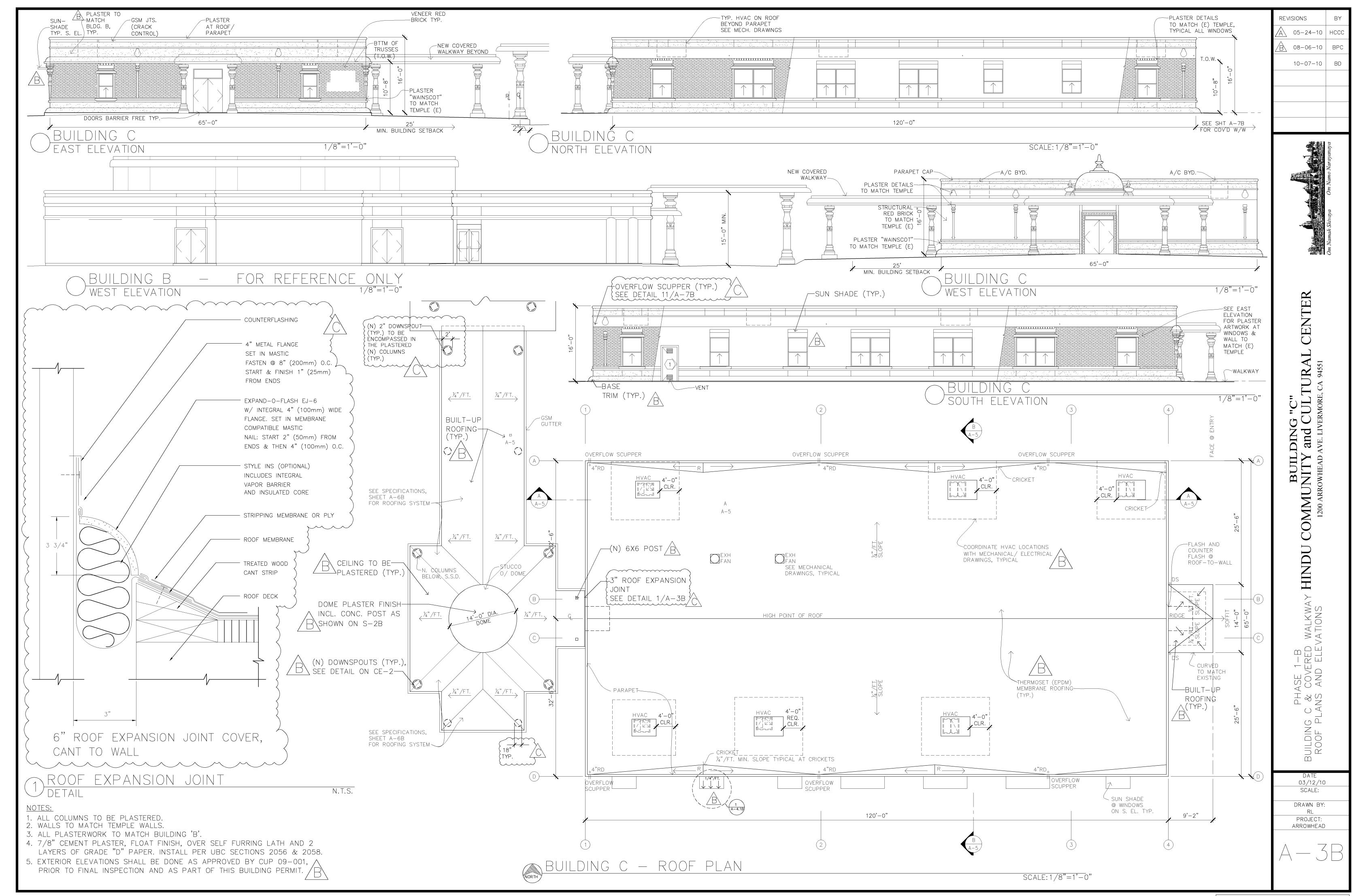
9'-1"

REVISIONS

05-24-10 | HCCC

08-06-10 BP(

10-07-10 BD



# DOOR AND $\mathcal{I}$ AME

Interior door frames shall be SDI Level 2 (16 gage, Heavy Duty) and Exterior door Interior doors shall be SDI Level 2 (Heavy Duty), Model 1 (Full Flush). Exterior Fire rated door shall have UL Label with required rating. metal doors and frames shall be in accordance with Steel Door Institute (SDI) standard specifications. doors shall be Level 3 (Extra Heavy Duty) Model 1. frames shall be SDI Level 3 (14 gage, Extra Heavy Duty)

 All windows shother
 Field verify all d
 Hollow metal do
 Wood doors - " shall come complete with screens.

I door and window sizes and requirements prior doors and frames to be painted w/ semi gloss

"Simpson" #4060 1¾" X 3'-0" X6'-8" VGDF. st as selected with clear varathain finish.

exterior door shall be secured as

Exterior doors shall be hollow metal no less than 1¾ thickness.

Exterior doors shall have a self-locking lock with dead latch, and a deadbolt lock with one inch throw.

The locking device on main entrance doors shall be so constructed that both deadbolt and dead latch can be retracted by a single action of the inside door knob.

The dead latch lock and deadbolt lock shall be keyed alike (one key will fit both locks).

Pairs of doors shall have flush bolts with a minimum throw of 5/8 inch at the head and foot (floor and ceiling) of the inactive leaf.

Door stop on a wooden jamb for an inswing door shall be of one piece construction with the jamb joined by a rabbet.

Non-removable pin or interlocking stud-type hinge shall be used in pin-type hinge which is accessible from the outside when the door

ITEMS SUPPLIED & INSTALLED BY CONTRACTOR ARE INITEMS SUPPLIED BY OWNER & INSTALLED BY CONTRACTION IN CONTRACT ARE INDICATED WITH "N.I.C."

| TALL | / | | SIZE (W X H) | TYPE | ROOM | MA

CONTRACTOR ARE INDICATED

HLIM

\*NOTE:

FIELD VERIFY
PRIOR TO (

ALL DOOR DIMENSIONS ORDERING.

MATERIAL

THICKNESS

FRAME

HDWR

DETAIL

FIRE

COMMENTS

WEATHER-

) 0 0 R

8'-0" X 4'-0"

1/4"

9/

A-5

20

ĭ Z

WIRED GLASS

9/ A-5

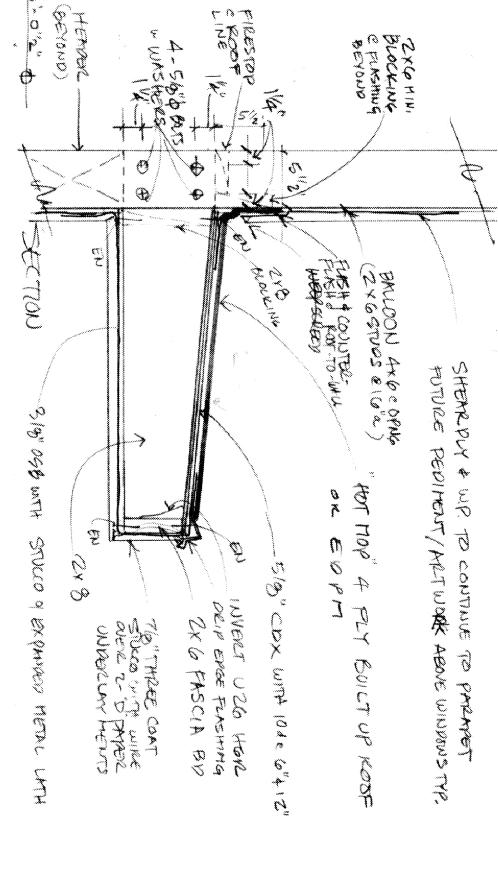
20 MIN.

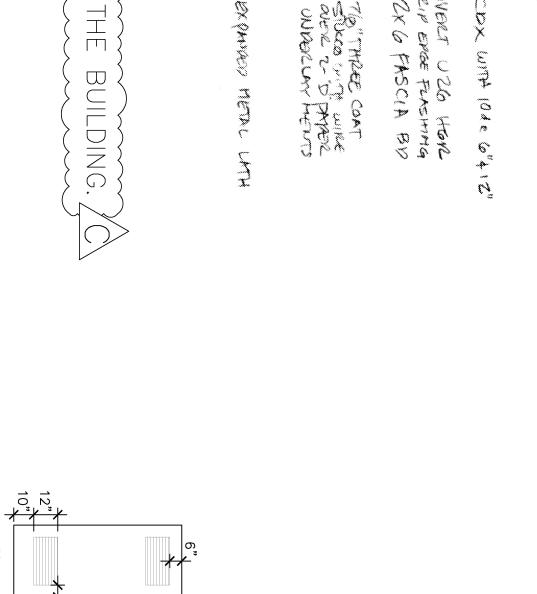
WIRED GLASS

10'-0" X 4'-0"

1/4"

Cylinders shall be so designed by manufacturer or protected that they cannot be gripped by pliers or other wrenching devices.
The lock or locks shall be operated from the inside of the door by a device not requiring a key.
The required force to open the doors will not exceed 5 pounds for exterior and interior doors and 15 pounds for fire rated doors.
The bottom 10" of doors in the accessible path of travel shall have a smooth, uninterrupted surface.
All doors to be equipped with single effort, non-grasp hardware (i.e. LEVER TYPE, PANIC BARS, PUSH-PULL ACTIVATING BARS) centered between and 44" above the floor.





DOOR

ETY GLASS

A R

 $\mathbb{W} \mathbb{A}$ 

刀 四

GROUPS

SYMBOLS:

= FLUSH
= FULL GLASS
= LOUVERED T & B
= NARROW LITE
= ROLL-UP
= STORE FRONT

GROUP 3 HINGES LOCKSET

3 ANSI

OCKSETS SHALL BE KEYED

ACCORDANCE WITH HCCC

GROUP 1 HINGES LOCKSET CLOSER SMOKE SEAL

3 ANSI F88 1 1 SET

GROUP 2 HINGES LOCKSET ACCOUSTIC SEAL

ANSI F84 SET

NOTE:

AWNING

 $\bigvee$ 

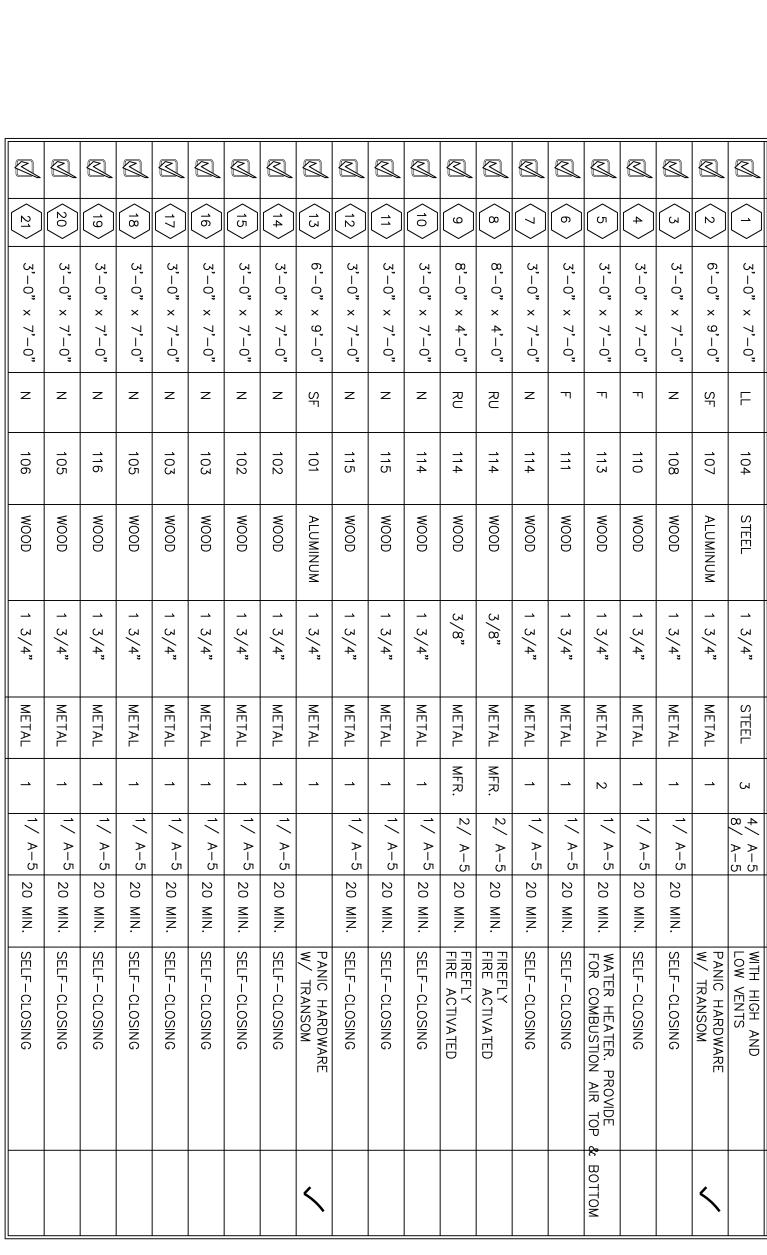
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PAINTED

 $\overline{\bigcirc}$ 

MATCH

 $\langle \mathcal{O} \rangle$ 



JAMB OPENING WIDTH		
3-1/2°	Guide Detail	
W/ SAFETY GLASS GLASS  E  F  GLASS  GLASS  GLASS	OBSCURE  FIX  FIX  FIX	MNDOWS

Phase

B

Permit Set

DRAWN BY:
RL
PROJECT:
ARROWHEAD

DATE 03/12/10 SCALE:

PHASE 1-B
DOOR & WINDOW SCHEDULES
& SPECIFICATIONS

BUILDING "C" HINDU COMMUNITY and CULTURAL CENTER 1200 ARROWHEAD AVE. LIVERMORE, CA 94551



TEMPERED \	
B 08-06-10 10-07-10	REVISIONS  05-24-10
BPC	ВҮ

WINDOW SCHED ULE\* \*NOTE: FIELD VERIFIEMS SUPPLIED & INSTALLED BY CONTRACTOR ARE INDICATED WITH A " "
ITEMS SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR ARE INDICATED WITH A

FIELD VERIFY
PRIOR TO C

ORDERING.

Ν

3'-0" × 5'-0"

3/4"

3/A-5

SIZE (W X H)

WINDOW

DETAIL

REQUIREMENTS

თ

8'-0" × 6'-0"

3/4"

3/A-5

9/ A-5

20

GLASS (SAFETY

NG)

3/A-5

PPG SOLARBAN 60.
OBSCURE GLASS
PPG SOLARBAN 60.

60.

PPG SOLARBAN 60.

60.

3/A-5

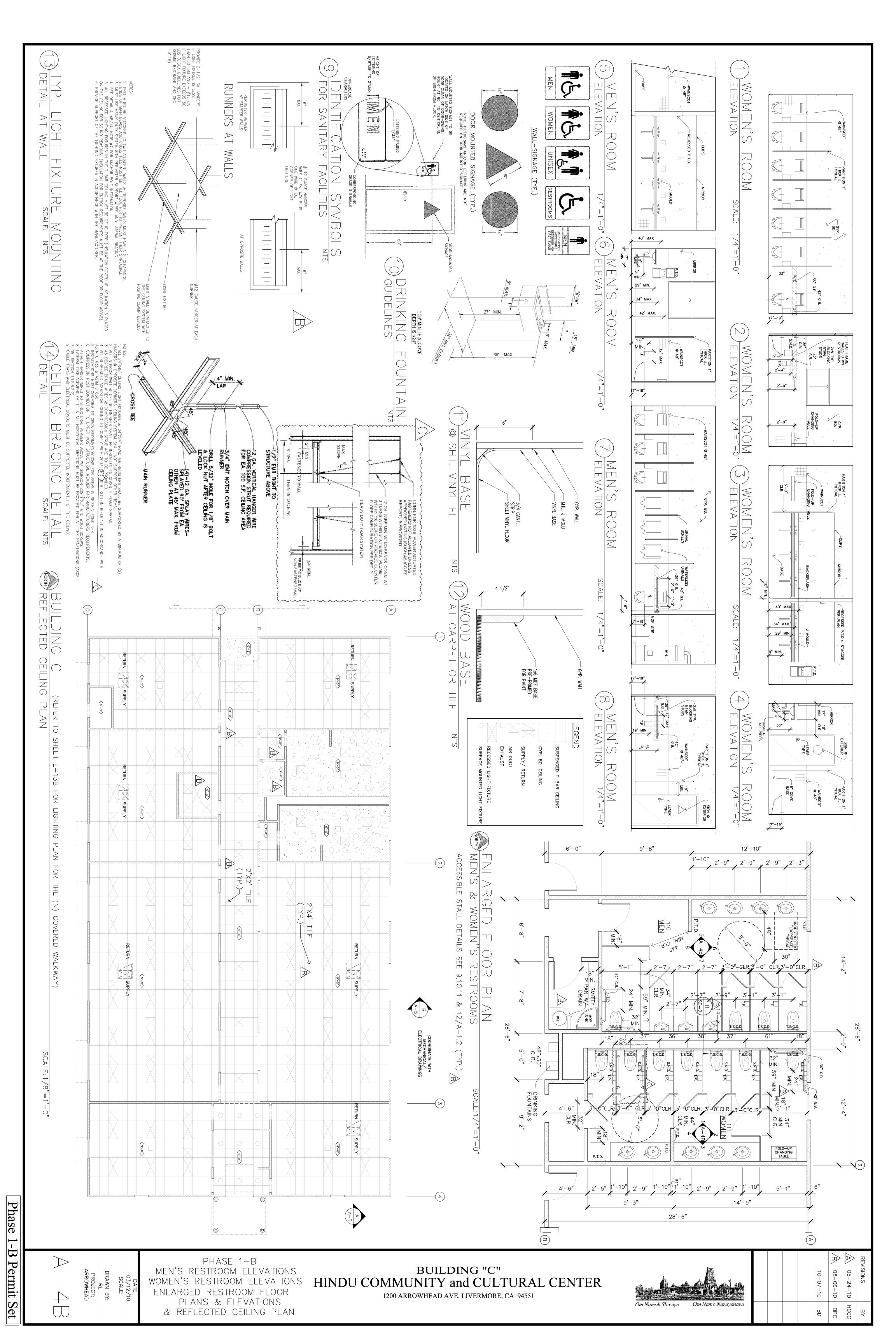
× 4'-0"

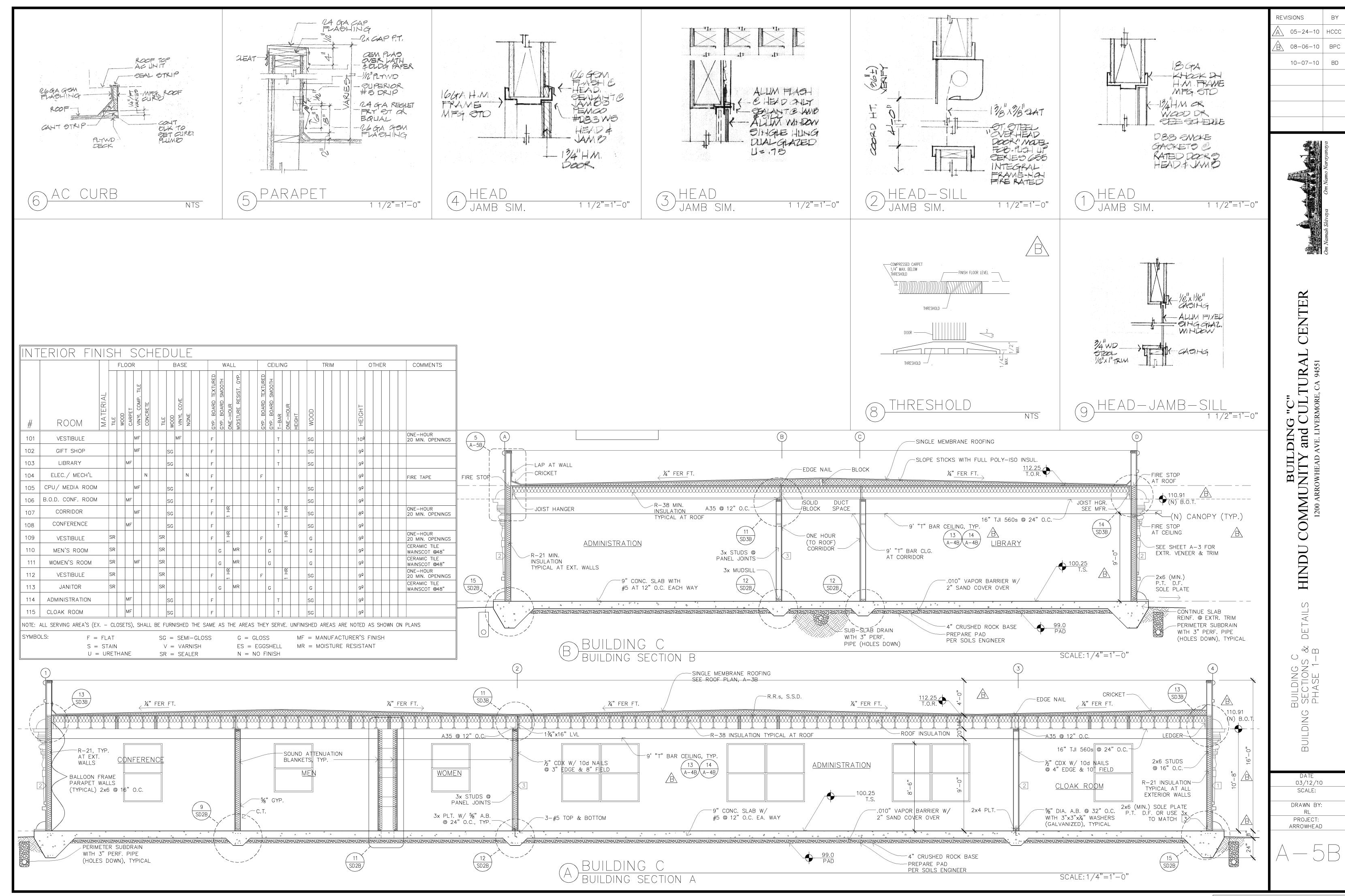
N

4'-0" X 5'-0"

3/4"

3/4"





1.01 GENERAL CONDITIONS

The Contractor shall comply with the obvious intent and meaning of these plans and specifications, which shall be construed to include all material, measures and modes of work necessary to complete the work herein described in a workman like manner, in strict accordance with these plans and specifications and to the satisfaction of the Owner. Building shall be 100% watertight. For any problem questioning ability to warranty notify the architect. The Contractor shall be held responsible for and must make good any defects through faulty, improper or inferior workmanship arising or discovered in any part of his work within one (1) year after completion and acceptance of same. The Owner reserves the right to reject any or all bids without explanation of any kind.

ORDINANCES AND SUBCONTRACTORS

The Contractor shall procure and pay for all civil inspections, permits and certificates of inspection as required. It shall be the Contractor's responsibility to see that all subcontracted work includes everything the plans and specifications call for in the subcontracted scope of work. Each Contractor will be responsible for conformance of his work with all rules, regulations, ordinances and codes or regulatory agencies affection his work, whether or not shown in the plans and specifications, including all applicable OSHA and California/OSHA orders.

INSURANCE

Fire Insurance: Owner shall, at his expense, have the entire work (less ground and foundations) insured from loss by fire with a policy made out to the Owner and Contractor as their interest may appear. The policy to run until work is finally accepted.

Liability Insurance: The General Contractor and the subcontractors shall maintain Workmen's Compensation Insurance as required by state laws. In addition, the Contractor shall show Certification of Insurance for Comprehensive General Liability Insurance Policy (with limits for bodily injury of \$50,000 each person/\$100,000 each accident and with limits for property damage of \$10,000 each accident or its equivalent).

Bonds: Contractor shall provide bonds, labor and material and performance, for 100% coverage.

**EXAMINATION OF THE SITE** Contractor shall visit the building site and become familiar with existing conditions before submitting estimates. Failure to do so shall not constitute a cause for future complaint or claim for extra.

1.05 DRAWINGS AND SPECIFICATIONS a. The drawings, which are a part of these specifications, show the necessary grading for the general construction for the building.

b. The drawings and specifications are to be considered as cooperative and any work of materials shown or mentioned in either one shall be executed as if they were shown or mentioned in both. c. Figures shall have precedence over scaled measurements and details over

general drawings.

1.06 INTERPRETATION OF PLANS

Neither the Contractor nor his workers, nor any subcontractor or supplier, shall make any assumptions as to the intent or meaning of these plans and specifications. The Architect will make all decisions regarding the intent and meaning of all details of this contract and the decision shall be final. Any t information required to fully clarify the intent and meaning of all details shall be requested form the Architect prior to bidding. After a building contract is signed, of the Contractor will not be allowed extra costs for any items of work shown on the (drawings and not included in his bid.

1.07 ALLOWANCES

Allowances provided in this contract are to be used only for material cost in the fixture and hardware categories. Labor to install allowed materials is to be tincluded in base bid.

1.08 CHANGE ORDERS

Amounts of extras of credits for changed items shall be agreed upon by the Owner and the Contractor and written authorization shall be issued to the (Contractor before proceeding with the work. Charges for work done without this (written authorization will not be accepted.

1.09 CLEANING

a. This Contractor shall remove all debris form the building site and in general keep the work as clear of rubbish as possible and upon completion, all shall be left "broom clean". b. This Contractor shall have all glass and plumbing fixtures cleaned by professional cleaners.

TEMPORARY SERVICES

a. Water: The General Contractor shall pay for all water used in the construction of the building b. Temporary Power: Electric power used in construction – the Contractor

shall pay for temporary connection and electricity used. c. The General Contractor shall provide temporary Sanitation Facilities.

1.11 LITIGATION

See contract agreement between Owner and Contractor

1.12

See contract agreement between Owner and Contractor

INSPECTON

See drawings for required inspections.

Unless specifically excluded on the drawings, the Contractor shall pay for all permits and connection fees to local utilities companies and districts for connections of utilities and include all utilities fees, assessments, costs whatsoever in contract.

DIVISION 2 SITE WORK (see full specifications in site development drawings)

2A.01 DEMOLITION See drawings for demolition.

INSTALLATION

Install new curb and gutter and driveway work, where shown on drawings, in full accordance with City of Livermore standards and requirements.

Obtain and pay for encroachment of other permits required for this work, and all related inspections.

ON SITE IMPROVEMENTS

Cooperation with other trades. Prior to demolition, coordinate schedule with paving, electrical and irrigation subcontractors to allow their removal of materials to be relocated.

2B.02 DEMOLITION See drawings for site demolition.

2B.03 CLEARING AND GRUBBING See drawings for site clearing and grubbing.

2B.04 TRENCHING AND BACKFILL See drawings for trenching and backfill.

DUST CONTROL During all stages of excavation and grading, provide labor and equipment 6A.06 minimize drifting or blowing dust. Use dust control measures such as water

2B.06' PAVING

Before paving, etc. level off and compact rockfill to 95%. Paving shall be 2" of plant mix applied on 4" Class II aggregate base crushed rock rolled flat with 10 ton rubber-tired roller, hand finished as required for first quality job. No pools of water permitted. All paving to be of material at workmanship specified for Type II Paving, California State Highway Departmen 6B.01 and AASHO Standards for Medium Traffic. All paving shall slope to drain. Apply Fog-seal coat after compaction of base or AC.

2B.07 STRIPING

Use lettering for compact stalls, arrows, symbols and curb at handicap sta Traffic paint white, blue accents, brush, spray or roller apply, 4" width unless noted otherwise.

2B.08 PARKING BUMPERS

Where shown, apply with epoxy and rebar pins to pavement. Bumpers to minimum 6" high, of length shown, minimum 3,000 PSI concrete reinforced continuous length of the bumper.

2C.01 LANSCAPING AND IRRIGATION See landscaping specifications attached.

DIVISION 3A CAST-IN-PLACE CONCRETE Also see structural specifications on sheet SD-1.

3A.01 SCOPE OF WORK

Provide and install all concrete, reinforcing and forms conforming to shape lines and dimensions shown on the drawings.

3A.02 CONCRETE

Portland cement shall be Type I or Type II. Coarse aggregate shall not exceed the following size limits: For Slabs: 3/4" slump maximum 4"

For Walls and Footings:  $1 - \frac{1}{2}$ " slump maximum 4" Transit mixed concrete shall have a minimum of six (6) sacks of cement per cubic yard. No admixtures or water shall be added to cement prepared to this specification without Architect's permission. Provide continuous inspection by testing lab of all concrete over 3,000 PSI. Submit mix design to Architect.

3A.03 CONCRETE SLABS

Before concrete slab on aggregate base is laid, lever off and compact rock fill to 95% compaction. See Section 2B. Reinforced concrete slabs, place in center of slab. Finish by screening, floating and troweling concrete to a smooth dense finish. See drawings for special finishes. Slope to floor drains where shown. Exposed concrete floors shall be suitably finished. Slabs shall be sealed and finished with "Stanlux Con-trete" as manufactured by Standard T. Chemical

3A.04 CONCRETE FORMS

Forms shall be of wood, steel or other approved material. All forms must be true to line, plumb and level with joints fairly tight.

3A.05 REINFORCEMENT Reinforcement shall be deformed structural grade billet steel conforming to ASTM Specification A165-40, latest designation or A165-60. DIVISION 4 MASONRY

4A.01SCOPE OF WORK See structural specifications on sheet SD-1.

DIVISION 5 METALS 5A.01 SCOPE OF THE WORK

Furnish and install all structural steel and miscellaneous iron shown on the prominent lap-joints or tears.

STRUCTURAL STEEL

All structural steel shall be fabricated and erected in accordance with the latest specifications of the AISC.

Furnish all carpentry bolts, steel angles, clips and railings, etc. as shown at

5A.04 MATERIALS See structural specifications on sheet SD-1. a. Structural Steel

b. Paint c. High strength bolts

Section 5B ARCHITECTURAL METAL 5B.01 WORK INCLUDED

a. Chain link fencing b. Stair railing c. Ornamental metal railings d. Ladders. O-Keefe metal railings as noted on the drawings. e. Submit Shop Drawings for all rails.

**DIVISION 6 CARPENTRY** 

6A.01 SCOPE OF THE WORK All rough, finished carpentry and millwork, installation of finish hardware with Energy Star, LEED and California Title 24 cool roof standards for initial and and related items as shown and / or specified herein.

6A.02 MATERIALS

Lumber: Grade lumber in accordance with current grading rules #16 of the Plywood: Grade in accordance with Commercial Standards. CS-45-48 (see specs on structural drawings, sheet SD-1)

UNDERLAYMENT

FRAMING

Frame, brace, anchor and tie all members together in a rigid manner. Make 7A.03 cuttings full and square. Do not cut structural members without Engineer's approval.

All members shall be securely nailed in place with proper size nails and secured rigidly in place. Studs shall be 16" on center, doubled at corners, used, including preparation, storage and handling and installation instructions and partitions and sides of openings. Finish and install all rough hardware and install | methods. steel angles and bolts required and finished in Section 5A. Receipt and install all finish hardware accurately and neatly. All work to conform to the 2007 CBC.

6A.05 TRUS-JOIST

Trus-joist, where shown, shall be as manufactured by Trus-joist MacMillan Company, Inc. or approved equal. Trus-joists and all work attached thereto shall be installed in strict accordance with manufacturer's instructions and details. (see | membranes, and thicknesses. specification on structural drawings, sheet SD-1)

**GLU-LAMS** 

Glu-lams: Douglas fir in accordance with WCLA Standard Specifications, exterior glue. Industrial appearance end seal. Protect from moisture at all times prior to weather-tight building. (see specification on structural drawings, sheet

DIVISION 6B - MILLWORK

SCOPE OF THE WORK

DIVISION 7 - MOISTURE PROOFING

SCOPE OF THE WORK Provide and install all roofing as shown on the drawings and specifications herein. Install hot asphalt and two (2) 15# felt waterproofing on walls below grade and above finish floor lever. Slit and reseal all fishmouthes.

MATERIAL AND WORKMANSHIP

Materials shall be new, furnished and installed in complete accordance with manufacturer's directions.

ACCEPTABLE MANUFACTURERS

a. The Celotex Corporation b. Johns-Manville Sales Corporation, Manville Building Materials Corp. c. Owens-Corning Fiberglas Corp. d. Consolidated Fiber Glass Products, Inc. (Conglas)

MATERIALS (BASIS: Manville 4 ply, 10 yr. NDL) a. Asphalt Bitumen and glass Fiber Reinforced Roofing: Manufacturer's standard products for systems specified and conforming to the requirements of

NRCA Roofing Manual. 1. System: NRCA Specification 35-NAGM; nailable deck, asphalt glass fiber reinforced membrane with mineral cap sheet surfacing. (comply

with NRCA requirements for each material) 2. Base Sheet: Provide three ply roofing system, counting base sheet, plus additional cap sheet.

3. Provide rosin-sized sheathing paper where recommended by roofing manufacturer for type of decking on project. 4. Base and Composition Flashing System: Provide manufacturer's premium quality commercial quality base and composition wall flashing

b. Mineral Cap Sheet: ASTM D3909, Manufacturer's standard mineral surfaced cap sheet for type of roof specified. 1. Color: Silver grey or equal with a minimum of 78 solar reflection index, JM GlasKap CR Cool Roof or approved equal.

system. (comply with NRCA recommendations)

c. Walkway planks: Dek-top as manufactured by Asphalt Products Oil Corp. (415-542-4887) cut to sizes indicated on drawings for walkway planks. d. Mechanical Fasteners: As recommended by insulation manufacturer and meeting recommendations of NRCA.

7A.05 PREPARATION

a. Inspect roof deck to ensure deck is clean and smooth, free of depressions, waves or projections and is properly sloped to drains, valleys or eaves. b. Ensure roof openings, curbs and pipes, sleeves, ducts or vents through the roof are solidly set, cant strips are in place and nailing strips located.

INSTALLATION

c. Deck surfaces shall be dry.

a. Apply roofing membrane in accordance with roofing manufacturer's instructions and NRCA recommendations for roof type specified. b. Apply felts smooth, free from air pockets, wrinkles, fishmouths,

c. Carry felts up cant strips to vertical surfaces and secure to nailing strips. d. Install 2-ply membrane and glaze coat for cut-off at "end-of-day"

f. Coordinate metal flashings and counter flashing.

g. Coordinate installation of roof drains and related flashings. h. Mop-in and seal flashings and flanges of items projecting through the

GUARANTEE

The General Contractor and the Roofing Contractor shall submit a written statement guaranteeing all roof work for a period of ten (10) years from date of Acceptance. All roofing work to be certified by the manufacturer. Send two (2) copies of manufacturer's certificate to the Architect or Owner immediately upon completion of the work. Ten year, no dollar limit certificate required.

DIVISION 7 - MOISTURE PROOFING

aged solar reflectance and thermal emittance.

SCOPE OF THE WORK Provide and install all roofing as shown on the drawings and specifications herein. Install Thermoset Membrane Roofing, Membrane Flashings, Metal

Flashings and Roof Insulation. 7A.02 MATERIAL AND WORKMANSHIP

Materials shall be new, furnished and installed in complete accordance with manufacturer's directions. a. Solar Reflectance and Thermal Emittance: Roofing system shall comply

b. Fire Resistance: Roofing system will achieve a UL Class A rating when tested in accordance with UL-790. c. Thermal Performance: Roof system will achieve a minimum R value not

less than 38. d. Drainage: Provide a roof system with positive drainage where all standing water dissipates within 48 hours after precipitation ends. e. Building Codes: Roof system will meet the requirements of all federal,

state and local code bodies having jurisdiction. All materials and accessories shall,

be acceptable to the City of Livermore Building Department.

ACCEPTABLE MANUFACTURERS

a. The Carlisle SynTec., or approved equal (contact: Don Lambrecht Rep, 916-417-6768)

1. Product Data: Manufacturer's data sheets on each product to be

2. Detail Drawings: Submit approved plan, section, elevation or isometric drawings which detail the appropriate methods for all flashing conditions found on the project. Coordinate approved drawings with locations

found on the Contract Drawings. 3. Selection Samples: For each finish product specified, provide two complete sets of chips representing manufacturer's full range of available colors,

4. Verification Samples: For each finish product specified, provide two samples, minimum size 4 inches square, representing actual product, color, and patterns.

**MATERIALS** a. Ethylene, Propylene, Diene Terpolymer (EDPM) Membrane fully adhered

uplift forces as calculated using the current revision of ASCE-7. 2. Base Flashing: Provide a waterproof, fully adhered base flashing 8A.04 system at all penetrations, plane transitions and terminations.

3. Insulation: Provide polyisocyanurate insulation in two layers to meet specified R-value. One layer shall be a minimum of 3.1 inches in thickness and shall incorporate a thermal barrier classified by UL for use over plywood substrate. Second layer shall be standard polyisocyanurate insulation with an inorganic facer.

4. Base and Composition Flashing System: Provide manufacturer's premium quality commercial quality base and composition wall flashing system (comply with NRCA recommendations).

b. Sure-White Non-Reinforced Membrane: Cured, non-reinforced EDPM membrane meeting the requirements of ASTM D 4637 Type I. 1. Color: White on Black 2. Membrane Thickness: 90 mil nominal.

PREPARATION a. Clean surfaces thoroughly prior to installation. Prepare surfaces using the and three (3) copies shall be forwarded to the Owner. This will enable the Owner t methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Do not commence work until all other work trades have completed jobs that require them to traverse the deck on foot or with equipment

b. Ensure roof openings, curbs and pipes, sleeves, ducts or vents through the roof are solidly set, cant strips are in place and nailing strips located. c. Deck surfaces shall be dry.

7A.06 INSTALLATION

a. Install all roofing materials and accessories, including insulation, membrane, flashings, walkways in accordance with the latest published specifications of the roofing manufacturer for the system specified. b. Perform daily clean-up to collect all wrappings, empty containers, paper, and other debris from the project site. Upon completion, all debris must be disposed of in a legally acceptable manner. c. Prior to the manufacturer's inspection for warranty, perform a pre-

inspection to review all work including flashing and caulking. 7A.07 CLEAN-UP AND PROTECTION Clean-up and protect installed products until completion of project. Touch-

up, repair of replace damaged products before Substantial Completion.

7A.08 GUARANTEE The General Contractor and the Roofing Contractor shall submit a written 8A.04 PANIC HARDWARE statement guaranteeing all roof work for a period of ten (10) years from date of acceptance. All roofing work to be certified by the manufacturer. Send two (2) copies of manufacturer's certificate to the Architect or Owner immediately upon completion of the work. Ten year, no dollar limit certificate required.

DIVISION 7A - SHEET METAL

SCOPE OF THE WORK Furnish and install all sheet metal work shown on the drawings, specified herein or wherever necessary for flashing purposes, to make a watertight job.

7B.02 MATERIALS Galvanized iron: 26 gauge minimum Solder: halfpig lead and half-tin with muriatic acid flux.

WORKMANSHIP Allow for expansion and contraction. Flash and counter flash all junctions of all roofs with vertical surfaces. Provide expansion joints 40'-0" on center. Fasten all down spouts securely to wall with straps. All workmanship shall be first class and shall be properly constructed and complete whether specifically mentioned or not. Use slip-joint covers at joints in flashing per SMACNA

DIVISION 8 - DOORS, WINDOWS AND GLASS For details see drawings and Title 24 requirements. SECTION 8A - GLASS AND GLAZING

8A.01 SCOPE OF THE WORK

All glass is factory installed, under section 8D and 8E, except mirrors. Furnish and install glass wherever shown on the drawings. (per Flat Glass Marketing Association, Glazing Manual)

CECTION OR .

8A.02 MATERIALS Clear glass: New clear float glass, PPG or equal 1/4" Tempered glass: New PPG herculite tempered safety glass Bronze glass: New PPG solarbronze, min. 1/4" pol. Plate Plate glass: PPG or equal polished plate ¼" thick Wire glass: 1/4" polished, square mesh run vertical (not diagonal).

Mirrors: Type A – polished plate second silver quality (in each lavatory) Unless noted on toilet accessory schedule. Exterior Windows: Solarban 60 PPG Industries or approved equal. Skylights: to be O'Keefs or equal double insulated. Frosted at restrooms.

The General Contractor shall be responsible for thoroughly cleaning all glass on both sides and replacing all broken or cracked glass prior to acceptance of 1. System: Provide a waterproof roof system, capable of withstanding the building by the Owner.

All work shall conform to the 2007 CBC regarding maximum size to thickness and tempering requirements.

SECTION 8B - FINISH HARDWARE

8B.01 SCOPE OF THE WORK

Contractor shall provide the Owner with complete Hardware Schedule for review and approval. Schedule shall include cross match-coding of locksets to door numbers on plans and three (3) copies shall be provided, allowing fifteen (15) working days for the Owner to review. Schedule shall show manufacturer's name and catalog number of each item. This schedule shall be considered the Preliminary Schedule. (all hardware shall be commercial quality and shall be installed in accordance with CAC Title 24)

Contractor's hardware vendor shall prepare a revised/corrected schedule revised document based upon the Owner's review comments on Preliminary Schedule. The revised document shall be considered the Final Hardware Schedule prepare a Keying Schedule which will be forwarded through channels to the hardware supplier for ordering hardware.

8B.02 DOOR LOCKSETS

Door locksets shall be Sargent 8100 series LWIL with USS10B finish. Keyways and Pinning schedules shall be determined by the Owner to coordinate with the Master Keying Schedule. No substitution in liew of Sargent locks will be considered.

a. All keyed locks shall be passed by a Grand Master Key. All lock cylinders are to be Grand Mastered, sub-building mastered and set keyed. b. Keys: Stamp all keys "do not duplicate"

1. Furnish three keys per lock with an additional three keys for each set; three keys for each Sub-master, three keys for each Building Master and 50 stamped key blanks in the Job Keyway. 2. Upon receipt of the locksets and cylinders from the factory supplier shall notify the Owner that the keyed locks and cylinders are ready

to be checked for the keying requirements set forth in the Keying Schedule.

After the keyed locks and cylinders have been checked against the Keying

Schedule and corrections make the Owner will accept the keys for the job

and the keyed locks will be delivered to the job.

Panic hardware and door closers shall be installed per the requirements of the local Fire Marshal. On all wood doors requiring panic bars and/or closers,

such hardware shall be installed with hex bolts. 8B.04 DOOR BUMPERS Door bumpers shall be Sargent concave type or equal. All wall mounted

bumpers shall have solid backing (2x4) installed behind each bumper.

Butt hinges to be McKinney TA2724. 4 1/4" x4 1/4" typical.

8B.05 DRAWER SLIDES Drawer slides to be Knape Vogt 1280P 8B.06 BUTT HINGES

**CABINET HINGES** Cabinet hinges: 30 deg. Reverse bevel doors – National Lock Co. C325

Cabinet Hinges: Flush doors – McKinney 2743 SECTION 8C - HOLLOW METAL DOOR FRAMES AND WINDOWS

8C.01 SCOPE OF THE WORK Provide all ferrous metal doors and frames, hollow metal work and related items complete as shown and specified. All doors and frames to be shop coat primed, except pre-finished aluminum anodized doors and frames and timely prefinished door frame systems. All exterior doors and frames shall be galvanized.

8C.02 MATERIALS Hollow metal doors and frames shall be in accordance with Steel Door Institute (SDI) standard specifications. Interior Doors shall be SDI Level 2 (heavy duty), Model 1 (full flush). Exterior doors shall be SDI Level 3 (extra heavy duty)

Interior door frames shall be SDI Level 2 (16 gauge heavy duty) and exterior door frames shall be SDI Level 3 (14 gage, extra heavy duty). Fire-rated doors shall have UL Label with required rating.

SECTION 8E - METAL SASH

DIVISION 9A - PAINTING AND DECORATING

f. Protect the work of other trades.

9A.01 SCOPE OF THE WORK a. It is the intent of the specifications that the Contractor shall execute all painters finishes throughout the exterior and interior of the building. Paint all wood, plaster or sheetrock, unfinished metals, unless specifically noted otherwise. Spray texture all sheetrock for flatwall work.

e. Workmanship to be first quality; smooth and uniform.

i. All paints to be Fuller-O'Brien or approved equal.

b. Stipple all enamel. Provide smooth finish for areas with wallcoverings. c. Accept tape work in writing to Owner, prior to start of painting. d. Colors to be per Owner or as scheduled

g. Examine block for tightness and report defects to the Architect before h. Interior trim – two (2) coats of enamel over primer. Gypsum board – two (2) coats of latex over primer.

a. Type A – Masonry/concrete: color coating – one (1) coat concrete block

primer sealer and one (1) coat acrylic latex. b. Type B – wood trim: one (1) coat oil primer and two (2) coats enamel. c. Type C – Exterior ferrous metal: one (1) coat rust inhibiting primer and

two (2) coats enamel. d. Type D – Galvanized metal: one (1) coat of zinc dust – zinc oxide

primer and two (2) coats semi-gloss enamel. 9A.03 INTERIOR a. Type 1 – Wallboard spray texture: two (2) coats flat latex wall paint b. Type 2 - Wallboard stipple finish: One (1) coat wall primer/sealer and

one (1) coat enamel flat stipple. c. Type 3 – Natural finish wood casework (doors or trim): One (1) coat lacquer sanding sealer with color and one (1) coat lacquer semi-gloss. d. Type 4 – Interior painted masonry/concrete: Two (2) coats wallpaint flat

e. Type 5 – Interior stain wood: Two (2) coats Cabot transparent f. Type 6 – Interior metal: One (1) coat enamel synthetic semi-gloss over

one (1) coat primer. SECTION 9B - DRYWALL

SCOPE OF THE WORK Furnish and install all gypsum drywall, taping and all related work complete

9B.02 MATERIALS 5/8" Gypsum Board as manufactured by US Gypsum Co., National Gypsum

5/8" board shall be fire code type "x" taping shall be Perf-a-tape System using Perf-a-trim components.

9B.03 WORKMANSHIP

Workmanship shall be without blemish. Where texturing or stippling is omitted, install SW edge boards vertically. Texturing is specified in Section 9A.

SECTION 9C - RESILIENT FLOOR COVERING

9C.01 SCOPE OF THE WORK

Furnish and install all composition floor covering where shown on the drawings. Provide 20 whole tile extra (each color) to Owner and one piece of 6'x9' sheet vinyl (each color) as extra material.

Vinyl sheets or tile – 1/8" thick vinyl Armstrong "Excelon" or approved

equal. Adhesive as recommended by manufacturer, colors as selected with 4" high

rubber base of solid color (Burke or equal). Install over 5/16" underlayment.

9C.02 MATERIAL

9C.03 WORKMANSHIP The Contractor shall be responsible for all failures and defects in his work Any floor surfaces which are unsatisfactory shall be brought to the attention of the

Owner before proceeding.

DIVISION 9D

SECTION 9E - ACOUSTICAL CEILINGS

9E.01 SCOPE OF THE WORK Furnish and install all suspended acoustical ceilings shown on the drawings.

Provide 20 whole panels (each color) to Owner as extra material.

MATERIALS

9E.03 INSTALLATION

Armstrong acoustical panels shall be 5/8" thick, 2'x4' and 2'x2' as shown on the drawings. T bar system shall be standard white aluminum or steel. Donn or equal, one hour rated, with required hold-down clips. Tile shall be Armstrong "Minaboard" mineral fiber panels with fissured design, size x 5/8", flame spread class 25, Federal Specifications No.SS-S-118a, NRC of .50-.60, light reflectance of 75% minimum or approved equal.

Installation shall be true and level without "kinking" of wires and in

accordance with manufacturer's written instructions. Suspension shall be by

minimum 10 gauge wires at 4'-0" on center each way. Provide extra wires at all light fixture corners. Employ "trapeze" type hangers at large ducts, etc. No

"swing" type hangers will be permitted. (see details)

SECTION 10A - TOILET ROOM ACCESSORIES

SECTION 9F - VINYL WALL COVERING 9F.01 SCOPE OF THE WORK Public waiting rooms and corridors to be vinyl covered. Contractor shall furnish and install BFGoodrich Koroseal Type II, total weight not less than 24 ounce. Ply, vinyl weight not less than 20.7 ounce. Ply, or equal. Color and

Provide an extra ½ roll, 54" wide.

SECTION 9G - TILE FLOORING 9G.01 SCOPE OF THE WORK Furnish and install ceramic tile on floors and walls, thin set method per Tile Council of America. See drawing for sizes and TCA specifications. Provide 20 whole tiles to the Owner as extra material. SECTION 10 - SPECIALTIES

pattern shall be selected by Owner. Submit examples, fawn, beige, desert tan.

SCOPE OF THE WORK Furnish and install all accessories as noted on drawing schedule. Provide 4 bundles of tissue for all paper dispensing units. SECTION 10B - TOILET PARTITIONS

SCOPE OF THE WORK The extent of the metal toilet partition work is shown on the drawings.

**MATERIALS** Metal toilet partitions shall be the following: Floor mounted, overheadbraces partitions with baked enamel finish and outswinging doors. Colors to be selected from standard pallate. Manufacturers offering products to comply with the requirements for metal

toilet partitions include the following (with coat hook and purse shelf): 1. Sanymetal 2. American Sanitary Partition Corp. 3. Global Steel Products Corp.

5. Bobrick Floor Anchored 1031 series

4. The Mills Company

SECTION 10C - FIRE EXTINGUISHERS SCOPE OF THE WORK Furnish and install 2A-10BC extinguishers in Sultz-Dewey semi-recessed

factory finish white cabinets – quantity shown on drawings. (per the Fire Marshal) DIVISIONS 11, 12 AND 13 Floor Grills: At all building entrances use model KD98 – 1 1/8" stainless steel grating by Kadee Industries (440-439-8650) or approved equal.

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REVISIONS

PLAN CHECK

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DATE SCALE: AS NOTED DRAWN BY: PROJECT: ARROWHEAD

